

In the Claims

Claims are amended as follows:

1. (original) A method of generating an adaptive software interface for at least two networked entities, the method comprising:

generating structured meta-data providing at least one semantic information element describing a characteristic of each said entity;

collating the semantic information elements of each said entity where possible with corresponding semantic information elements of said at least one other entity; and

analysing said collated semantic information elements to establish the extent to which the interface capabilities of said at least two networked entities are compatible and generating in accordance with said established compatibility the adaptive software interface for the two entities.

2. (original) A method as claimed in claim 1, wherein the step of collating occurs dynamically during a preliminary exchange between the two entities prior to an interface being established between the two entities.

3. (original) A method as claimed in claim 1, wherein said structured meta-data includes associated meta-data for at least one said semantic information element.

4. (original) A method as claimed in claim 1, wherein the semantic information element describing the characteristics of said adaptive interface is provided in said meta-data in a form independent of the version of software used to generate said metadata.

5. (original) A method as claimed in claim 1, wherein said semantic information element is generated by a compiler receiving input data from an interface description and a code template.
6. (original) A method as claimed in claim 1, wherein said interface description includes a model of the data to be communicated across the interface and a code template.
7. (original) A method as claimed in claim 1, wherein said semantic information element provided by said meta-data has a form which can be mapped to an appropriate transport layer and exchanged between said networked entities prior to a higher level interface being established between said networked entities.
8. (original) A method of determining at least one behavioural characteristic of a first entity in a relationship with at least one other entity comprising the steps of:
- generating meta-data providing a structure containing at least one semantic information element describing a characteristic of the first entity;
 - generating meta-data providing a structure containing at least one semantic information element describing a characteristic of the at least one other entity;
 - collating the semantic information elements of the first entity with the semantic information elements of the at least one other entity;
 - analysing each pair of collated semantic information elements to determine at least one behavioural characteristic of the first entity in the relationship.
9. (original) A method as claimed in claim 8, wherein the meta-data structure is provided in a form suitable for indicating at least one semantic element taken from the group including: a description, a range, a default value.
10. (original) A method as claimed in claim 8, wherein in the step of generating meta-data for the first entity, the at least one characteristic is a characteristic of an

interface of the entity, and wherein in the step of generating meta-data for the at least one other entity, the at least one characteristic is a characteristic of an interface of the at least one other entity.

11-17. (cancelled)

18. (original) A method of establishing a compatible interface between an initiator and a responder in the case where an interface of the initiator has at least one differing characteristic from an interface of the responder comprising the steps of

generating at least one meta-data structure providing at least one semantic information element for each entity, wherein each said semantic information element describes a characteristic of an interface capability of one of said entities;

collating said meta-data structures such that each semantic information element corresponding to the initiator's interface capability is collated with a corresponding semantic information element corresponding the responder's interface capability;

analysing the collated semantic information elements to determine the extent to which the initiator and the responder can generate a compatible interface;

establishing in accordance with said analysis an interface between said initiator and said responder.

19. (original) A network management system adapted to perform the steps in a method of generating an adaptive software interface for at least two entities, the method comprising:

generating structured meta-data providing at least one semantic information element describing a characteristic of each said entity;

collating the semantic information elements of each said entity with those stored semantic information elements of said at least one other entity; and

analysing said collated semantic information elements to establish the extent to which the interface capabilities of said at least two networked entities are

compatible and generating in accordance with said established compatibility the adaptive software interface for the two entities.

20. (currently amended) A program for a computer stored on a computer-readable medium and in a machine-readable format arranged to perform steps in a method of generating an adaptive software interface for at least two networked entities, the method comprising:

generating structured meta-data providing at least one semantic information element describing a characteristic of each said entity;

collating the semantic information elements of each said entity with those semantic information elements of said at least one other entity; and

analysing said collated semantic information elements to establish the extent to which the interface capabilities of said at least two networked entities are compatible and generating in accordance with said established compatibility the adaptive software interface for the two entities.

21. (cancelled)

22. (original) A network including a computer system adapted to perform steps in a method of generating an adaptive software interface for at least two networked entities, the method comprising:

generating structured meta-data providing at least one semantic information element describing a characteristic of each said entity;

collating the semantic information elements of each said entity with those semantic information elements of said at least one other entity; and

analysing said collated semantic information elements to establish the extent to which the interface capabilities of said at least two networked entities are compatible and generating in accordance with said established compatibility the adaptive software interface for the two entities.

23. (currently amended) A software application stored on a computer-readable medium and capable of providing a semantic description of another application performing a computational process in a network, the semantic description having a predetermined structure which is invariant regarding the version of compiler used to generate said semantic description from said software application and said other application, said semantic description providing discernable features of at least one characteristic of said other application.

24. (original) A software application as claimed in claim 23, wherein said network is taken from the group comprising:

a communications network, a data network, a computer network.

25. (original) A software application as claimed in claim 23, wherein said at least one characteristic relates to a characteristic of an ability of said other application to interface with at least one other application performing a computational process over said network.

26. (currently amended) An adaptive software interface for at least two networked entities, the adaptive software interface being stored on a computer-readable medium, the adaptive software interface being generated by;

generating structured meta-data providing at least one semantic information element describing a characteristic of each said entity;

collating the semantic information elements of each said entity where possible with corresponding semantic information elements of said at least one other entity; and

analysing said collated semantic information elements to establish the extent to which the interface capabilities of said at least two networked entities are compatible and generating in accordance with said established compatibility the adaptive software interface for the two entities.